

Title (en)

METHOD AND DEVICE FOR COMPUTER-ASSISTED OPTIMISATION OF OCCUPANCY OF MAGAZINE SPACES BY TOOLS WITHIN AT LEAST ONE TOOL MAGAZINE FOR A MACHINE TOOL

Title (de)

VERFAHREN UND VORRICHTUNG ZUR RECHNERGESTÜTZTEN OPTIMIERUNG EINER BELEGUNG VON MAGAZINPLÄTZEN MIT WERKZEUGEN INNERHALB MINDESTENS EINES WERKZEUGMAGAZINS FÜR EINE WERKZEUGMASCHINE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR L'OPTIMISATION ASSISTÉE PAR ORDINATEUR D'UNE OCCUPATION D'EMPLACEMENTS DE MAGASIN PAR DES OUTILS DANS AU MOINS UN MAGASIN D'OUTILS POUR UNE MACHINE-OUTIL

Publication

EP 3661694 A1 20200610 (DE)

Application

EP 17768112 A 20170914

Priority

EP 2017073206 W 20170914

Abstract (en)

[origin: WO2019052649A1] The invention relates to a method and device for computer-assisted optimisation of the occupancy of magazine spaces (P) by tools within at least one tool magazine (R) for a machine tool, one or more workpieces of a workpiece type being manufactured with the aid of the tools provided by a magazine unit at a provisioning place. An essential step of the claimed steps of the method according to the invention described in the description is the optimisation of the occupancy of the magazine spaces by tools so that the total waiting time is minimised, wherein the total waiting time is composed of individual waiting times which result in each case from the difference between the detected provisioning period and the detected working step duration if the value of the difference is positive, otherwise the individual waiting time assumes the value zero.

IPC 8 full level

B23Q 3/155 (2006.01); **G05B 19/418** (2006.01)

CPC (source: EP US)

B23Q 3/15503 (2016.10 - EP); **G05B 19/182** (2013.01 - US); **G05B 19/40938** (2013.01 - US); **G05B 19/4187** (2013.01 - EP US); **G05B 2219/32257** (2013.01 - US); **G05B 2219/32276** (2013.01 - EP US); **G05B 2219/33124** (2013.01 - US); **Y02P 90/02** (2015.11 - EP)

Citation (search report)

See references of WO 2019052649A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2019052649 A1 20190321; CN 111050992 A 20200421; CN 111050992 B 20211119; EP 3661694 A1 20200610; EP 3661694 B1 20230524; US 2020201299 A1 20200625

DOCDB simple family (application)

EP 2017073206 W 20170914; CN 201780094873 A 20170914; EP 17768112 A 20170914; US 201716645947 A 20170914